

QUA·RAE

HERE IS NEWS OF ... THE RADIO ASSOCIATION OF ERIE...

VOL. IV NO. II

FEBRUARY 1973

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THIS MONTH'S CONTRIBUTORS

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YOUR DUES ARE NOW BEING ACCEPTED FOR 1973

The Radio Association of Erie, Inc
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QUA·RAE - THE FINEST AMATEUR NEWS PUBLICATION BY FAR.

R.A.E. MINUTES

December 7, 1972

The meeting was called to order at 8:07 PM by K3QAY.
Officers present: K3QAY, WA3HSR, and WA3EAY.
Directors present: WA3HDK, K3VLP, W3SN, WA3MAU, AND WA3KAI.
The minutes of the November meeting were approved.
The treasurer indicated a balance of \$282.40.

Tom Schwab, W3KPM turned over a slip for the deposit of \$185.65 to the RAE account from interest on the bonds. Tom also turned over the safety deposit box key to WA3EAY. Several alternate ways of investment were discussed as the bonds will mature next year. It was agreed that the Board of Directors would discuss the matter at their next meeting. It was also agreed that W3KPM and W3AQY continue to clip the coupons until other arrangements could be made.

K3QAY then declared that a quorum existed and turned the meeting over to the Election Committee consisting of K3VLP, WA3MAU, WA3HSR, and WA3ISN. K3VLP declared nominations for Board of Directors be opened. The two outgoing Directors were WA3HDK and K3UPC. The following members were nominated: WA3HSR, Mike Hall; K3HFL, Bud Wilson; and W3NFM, Dick Conley. After nominations were closed a secret ballot election was held with the following results:

Mike Hall, WA3HSR - - 13

Dick Conley, W3NFM - 9

Bud Wilson, K3HFL - - 8

K3VLP declared that the election was a valid one and the new Board members take their positions immediately. George then turned the meeting over to K3QAY.

CORRESPONDENCE

- 1) New 1973 memberships from W3QN, W3LKJ, K8OHL, W3IMK, W8UNS, W3MED, W3LKH, WA3PFL, WA9EZZ, and Maurice Baker.
- 2) Exxon credit card application.

COMMITTEES

QUA-RAE - WA3HDK said he hoped to have the December issue out within a week to 10 days. Bob also asked the membership to act on a bill for typing submitted by Annabel Kader for \$26.00. After some discussion it was moved by WA3HDK to make payment and the motion was carried. Bob also announced that a QUA-RAE meeting would be held on December 28, 1972 at the Red Cross Building.

ACD - WA3HSR reported for W3KPM that the TR-4 at the EOC was sent back to Drake and the repaired rig had already been received by Civil Defense. The total cost was around \$20.00. Mike also reported that Tom expected to have the COM truck inspected next week. Mike also reported that the Mobile Activities Committee would be installing a 12 volt power system on the COM truck in the near future.

REPEATER- K3WTZ reported that repairs to the transmitter's COR had been completed and that remote control shut-down of the repeater was now possible. Brownie also added that the amplifier and power supplies had been obtained from W3ZLO.

ACTIVITIES- The following activities were listed.
December 15 - Xmas party, 6:30 PM Sweden House in Eastway Plaza.
December 21 - Al Dolgosh, K8EUR of Antenna Specialists at Reserve Center at 8:00 PM.

REPEATER COMMITTEE MEETING MINUTES--- DECEMBER 14, 1972

The meeting was called to order at 20:00 by K3WTZ

Minutes were read and approved as corrected.

Treasurer not present, report given by K3WTZ.

Balance \$131.56

\$40. has been paid to Bliley Electric for electricity.

\$40. has been paid to Haysite for electricity.

OLD BUSINESS

K3NAU reported Bliley has received check for \$40.

K3TZ reported he has built the tone decoder for the control like of the repeater.

Investigation of moving the XMTR site is nearing completion- and the TIME OUT circuits have been completed. The operation of the RF sensor for the power amplifier was discussed.

The CCR was replaced at the XMTR site by K3WTZ & K3QAY.

K3WTZ reported the new exciter is ready to be given to K3ATZ to finish.

K3QAY reported that he is still working on the power amplifier for the XMTR.

George Dickey donated a chassis for the power supply at the XMTR.

K3WTZ reported that the source of the hum on the repeater has been located- part is in the controller at the XMTR site the other part is in the link XMTR at the RCVR site. Looks like the power supply for link XMTR has bad filters.

Project will be undertaken to build 450 XMTR with tone control to control frequency of XMTR between .79 and .94.

Discussion of how repeater should operate on dual frequency 34/94 and 19/74.

Penelec changed insulator on one pole on the line that runs near the RCVR site. While the high voltage line was shut down the noise in the RCVR was almost completely gone but when line was energized the noise appeared. Discussion followed on what action we could take to correct the problem.

K3WTZ estimated cost would be \$35. for modifications to RCVR to operate 19/79 and 34/94.

K3NAU suggested formation of 2 meter net using the acronym MERET - Metropolitan Erie Radio Emergency Team. Net would meet 34/94 on Sunday night at 8:30.

It was decided to try for awhile to see if interest was there. K3NAU has appointed net manager.

Discussion of dues and voting rights followed - it was agreed upon that to be a

CONTINUED ON PAGE 10

PREZ SEZ

Where does the time go? Another year has passed and I didn't even get my article ready for the last issue because of the Christmas rush, the parties, New Years Eve, Activities Meetings, Directors elections and officers appointments. In case you didn't notice I have accepted the Presidency of RAE for an additional year. As a result I resigned from a concurrent term on the Board of Directors and Bud Wilson, K3HFL, is now a Director to fill the vacancy. We should have another good year with Chuck Bliley K3NAU, as Vice-President; Mike Hall, WA3HSR, Secretary; and Marty Brown, WA3EAY, as Treasurer. Chuck is responsible for arranging our activities meetings and will probably ask many of you to serve on his committee and make suggestions on subjects you would like, covered. You must help in these matters to have good activities planned.

We also need an Editor for Qua-Rae since Bob Bair, WA3HDK, who has been acting editor will be away for the next year on a special school program. Bob will be home each month to see that QUA-RAE gets printed but there must be someone out there who is capable of editing the material. You need not write the QUA-RAE you only need edit the articles such as this one, lay out the paper and get the masters typed. How about a volunteer to keep this RAE project going. If you like the paper and want it to continue, you will have to devote time to it. There must be a member with some extra time and talent to help on this important project.

We are not lacking volunteers in the repeater group and much new transmitter site equipment is being built. The group has done very well in obtaining site and equipment contracts and has invested over \$700. in equipment and maintenance over the last year. Keep-up the good work.

- "Brownie", K3QAY

ACTIVITIES PLANNED

Tacked on to my normal duties as your new Vice-President of the RAE, is the Chairmanship of the Activities Committee, and each of you are members of this committee.

The Activities Committee is of interest to everyone in the club, as what comes out of it is fun for all, or at least should be. The price for the pleasure we gain from the various activities throughout the year can be next to nothing if we work together; come up with a large number of potential programs, and prepare far enough in advance to make the load a light one to carry.

So far, I have received a number of very good suggestions and have successfully followed up a few. The calendar of events on the activities chart is about 3/4 complete, but I still need a few more ideas. Get in touch with me via telephone, on the air, or at the club meetings and let me know what you want. I think we have some very good programs lined up now, but there are some holes to be filled up, so speak-up.

Just to fill you in on what is on the agenda at the time of this writing, here is a brief list.

February's Activities meeting will be held at WQLN-FM studios on Route 19 where we will see some of that beautiful new equipment we wish we could have in our shacks to replace that crummy surplus 2 meter FM gear. HI!

March will probably come in as a Lion with Bud Wilson, K3HFL, following up shortly at the Armed Forces Reserve Center on the 15th with a technical discussion including the use of the oscilloscope, and heterodyning and mixing mysteries will be fully explained. Bud is a new Director for the club, and will impress you I'm sure with his knowledge and expertise in the electronics field.

Later on during the Spring and early summer months are a host of activities

Continued on page 9

ARRL BULLETINS

SPECIAL BULLETIN NR 933, JANUARY 4, 1973
CANADIAN DIRECTOR VE3CJ ANNOUNCES THAT A
TEN METER BEACON STATION OPERATING
TWENTY FOUR HOURS A DAY, SIGNING IN FSK
WITH 850 HERTZ SHIFT. THIS IS IN COM-
PLIANCE WITH THE REGION 1 IARU PROGRAM
OF TEN METER BEACONS FOR PROPAGATION
STUDY AR

NR 407, JANUARY 3, 1973

FCC HAS PROPOSED TO RAISE ITS REVENUES
BY THIRTY PERCENT THROUGH RAISES IN FEES
COLLECTED FROM VIRTUALLY ALL LICENSEES.
AMATEUR FEES WOULD GO FROM NINE DOLLARS
TO TEN FOR NEW, RENEWED OR MODIFIED AND
RENEWED LICENSES, FROM FOUR TO FIVE
DOLLARS FOR STRAIGHT MODIFICATIONS.
SPECIAL CALL SIGN FEES WOULD STAY AT
TWENTY FIVE DOLLARS AND DUPLICATE
LICENSES AT SIX. NOVICE, MILITARY REC-
REATION, RACES AND RECIPROCAL AUTHORT-
ZATIONS WOULD ALL REMAIN FREE OF CHARGE.
DEADLINE FOR COMMENT ON THE PROPOSALS,
CALLED DOCKET 19658, IS FEBRUARY 13, AND
FOR REPLY COMMENTS FEBRUARY 28, 1973.
ARRL MEMBERS MAY WISH TO CONVEY THEIR
REACTION IMMEDIATELY TO THE APPROPRIATE
LEAGUE DIRECTOR AS SHOWN ON PAGE 8 OF
QST. THE TOPIC WILL UNDOUBTEDLY BE DIS-
CUSSED AT THE BOARD MEETING JANUARY 18.
FURTHER INFORMATION ON THE DOCKET WILL
BE IN THE FEBRUARY ISSUE OF QST. AR

SUBMITTED BY JERRY OWEN, K3KAP

SSB

FOR SALE: BG312/N RCVR w/P.S. 2-18MC;
Johnson Viking Valiant XMTR 150W,
AM, CW, SSB; Hewlett Packard VTVM
MDLE 440 B; Misc electrolytes, tubes
and parts. Illy Sobell, #4011
Parkside Ave, 866-3065

FOR SALE: MT-1 90W AM/CW mobile XMTR
w/AC supply 80 thru -10 meters VFO \$175.
HALTERLUND HQ-170 w/spkr and clock SSB/
AM/CW 160-6m. \$150. Both for \$200. HEATH
HW-32A 20m SSB XCVR. 200w..P.E.P new in
August '72. \$100. (With SPKR., MIC.,
D.C. supply, and HYGAIN MOBILE ANTENNA,
& 10C KHZ XTAL CAL. \$200.) All equip.
mint. Gene Wallawik, K3ASF, 120 Brink
Drive, Cambridge Springs, Pa. 16403

DIRECTORS NOTEBOOK

This year I have had the pleasure of
being selected by the Board of Directors
to sit as chairman of the board. I
don't know if this is an honor or just
another way of getting me behind the
eight ball (AS IF I NEED HELP GETTING
THERE). But as long as I've been asked
to fulfill this job I will try to do it
to the best of my ability. In talking
with an officer of another local Radio
Club the other evening I was told "I
have never seen a place where so many
Hams want something done; but no one
wants to do anything." Stop and think
about how many times this last month YOU
griped about the January QUA-RAE being
only 8 pages instead of 20? How many
times have YOU griped about there not
being anything in the QUA-RAE that
interested you? Yet for the past year
Bob WA3HDK has been serving as Editor,
Proofreader, Mailing Clerk, Business
Manager, Printer, Office boy, and
Janitor while the officers and board of
directors have approached many of you
for help in this and other club func-
tions. As the commercial goes "99 and
44/100% of you are too busy to help.
(Where do you get time to do all that
griping?) Do you realize that the time
you spend griping each month would take
care of one of Bob's many jobs?

Coming up in May is the annual auction.
Help will be needed here also-again we
find WA3HDK and K3VLP as co-chairman.
Then in the fall, our annual banquet-
hamfest again with Bob WA3HDK on the
committee. With over 150 members, (a-
bout 100 within 25 miles of E. did
you ever wonder why only about 20 are
ever a member of any committee or func-
tion?

This year we have appointed K3NAU Chuck
as Vice-President. While he's not in
charge of Vice, he is chairman (not the
whole thing) of the activities commit-
tee. In the January meeting he outlined
a very impressive activities program for
the next 9 months including an ox-roast
and corn picnic in the summer. He will
announce a date for this as soon as he

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finds out the schedule of other local amateur summer activities.

Also under discussion has been the possibility of chartering a bus to go to one of the areas larger Hamfests-Rochester, Pittsburgh Breeze Shooters, or Warren, Ohio. If you are interested in going to one of these, contact any of the club officers or board of directors. Give us your ideas by the 10th of Feb. and we will see what can be worked out. I know that this is not much time, but I find that the longer something is put off the more apt one is to forget it completely. At present it looks like we could go to Rochester for about \$12. each including banquet, door prize tickets, entrance fee, bus fare and possibly some refreshments in route. They always have a trip into downtown Rochester for the VL-KYL, which is free. The prices for Pittsburgh and Warren will be obtained if there is sufficient interest. We would also like suggestions, ideas and help with the Hamfest '73 and we have hopes of making enough money to keep the membership fees low. (DO YOU KNOW WHERE YOU GET MORE FOR YOUR \$1.50?) What I've said here are my own ideas, I assure you, but I think that in principal that they are the thoughts of all the board members, IF YOU HAVE ANYTHING TO CONTRIBUTE, PLEASE SAY SO.

'73

George K3VLP

MEADVILLE HAS REPEATER

There has been quite a lot of running around and excitement in the air around the Meadville area of late. What is it all about? Would you believe a two meter repeater?

Last year the Meadville club reorganized and gave itself a new name -the Crawford Amateur Radio Society, and established a number of new goals to go along with its new name.

CONTINUED NEXT COLUMN

emergency communications in the area, with the thoughts of bad winter storms and floods of the past in the backs of their minds. After a couple of the fellows were on two FM a short time, and hearing and seeing all the activity around on two meter FM repeaters, they came to the conclusion that it was the answer to their communications problems.

Seeking help from their new friends on the WA3KXD repeater they first thought of a satellite KXD receiver site in Meadville. That was fine for rag chewing for base stations, but no good for local mobile communications coverage. The logical conclusion: Meadville should have its' own repeater.

Trying to find suitable equipment for a repeater, at a cheap price, is like looking for a needle in a haystack. Even so, when an offer of some free equipment was servicable but it meant more work than what was planned.

This is where I come in. I had been working on an all transistor AC-DC portable two meter repeater for several months and was nearly finished, but had no where to put it. So at the suggestion of one of the Erie FMers I offered my equipment for lease to the fellows down south to help them get their "machine" on the air a bit sooner with little or no work. I would see the fruits of my labor put to good use, and Meadville would have a chance to learn about repeater construction and installation first hand and do it cheaply!

As it turned out maybe it was cheaper in terms of dollars and cents, but not so in hours. They still have to build a replacement of their own.

I think our friends down South have learned as we did, and do yet, that a repeater is no simple project, but a complicated communications system, with lots of unknowns and frustrations.

CONTINUED ON PAGE 7

* TYPING ERROR - TOO LATE TO FIX

being fortunate enough to secure permission to use the county's emergency communication facilities at the Crawford County Fair Ground with its 120' tower was a real inspiration to the group. Bob Myers, K3HWL, CARS President and his repeater Committee chairman Mike Caputo, K3YAK, quickly got things organized to get a couple of antennas installed on the tower 100', 60' levels, for receiving and transmitting respectively.

Hurriedly putting the finishing touches on the "machine" I was in my car and down to Meadville a week or so later. This would be one of many, many trips down to the repeater site for tests and adjustments in the weeks to come. We quickly learned what a headache repeater installation can be and what a difficult problem getting rid of "desensitization" would be.

Initial range of the repeater was about three miles with a one-watt set and around six or seven with a twenty watt unit. Since then through the use of heliax cable, filters, and a preamp on the receiver the range has been extended to about six or eight miles for a one-watt unit and ten to fifteen for twenty watt mobiles. Stations in Erie running ten watts and a beam can be copied through the machine regularly.

With some cavities in the process of being built, the range of the repeater ought to be about ten to fifteen miles for one-watt mobiles and thirty to forty miles for a twenty watt mobile and that will be with twenty watts output from the repeater transmitter itself.

Perhaps this ought to be labeled as a progress report, as the project is really only partially completed. Meadville's own equipment is being systematically gathered, tested and assembled, the licensing legwork has been completed and is now in the hands of good 'ole F.C.C. (for eight weeks at this writing)

I think the most important aspect of the whole project to date is the all goodwill and cooperation that has been generated by the repeater project, not only within the club, but also within the

community and with amateurs in both Crawford and Erie Counties.

If a group of hams of the size of the CARS, can pull off a project of this magnitude they have done something short of stupendous, and at this time it looks as though they just might succeed! More power to them. I'm proud to say I've been a part of this fantastic project which shows the potential that we have if we ever put our minds and hearts to it.

The Erie (RAE) repeater can take pride in it's success and the part it has played in encouraging the Meadville fellows onward, but we have a great natural potential in sheer numbers alone. I think there is a lesson in co-and team effort here which ought to make us up here at the RAE think twice about our club.

I am proud of what we are, but would be even prouder of what we could be. Let's show the fellows in Meadville that their strivings for their club and amateur radio aren't unique to them alone, but are untapped potentials in all clubs and amateurs alike.

-Charlie B. K3NAU

MOBILE COMMITTEE

In late November the nucleus of a mobile operating committee met at the Erie County Emergency Operating Center. (E.O.C.) During this first meeting it was decided to start upgrading the equipment in the Communication truck. As a start it was decided to obtain a TU unit for the teletype unit, get an all-band mobile antenna, install a 12-Volt alternator and battery to power the communications equipment. We have received the kit for the TU and are in the process of evaluating various all band antennas. This last item might not seem like much but you must remember, that an antenna that loads well on a car may not work at all on the truck. We are contemplating putting the Viking II back in the truck to be used on RTTY.

This would relieve the Swan of being overworked when transmitting RTTY. For the uninformed, the rule of thumb for operating RTTY with a SSB Transceiver they advise only about 1/3 of the CW power, then in only no more than 10 mins. on -10 min. off. (Which we always exceed on the annual C.D. - R.C. emergency test. At that time we usually xmit for about 40 min. to an hour without a break.) With the Viking II we can use about 180 Watts D.C. continuous.

We also hope to get some better 6 and 10 meter AM gear for both 12 Volt DC and 110 V. A.C. These are only some of the things we are hoping for. Sometime in the near future we want to get a 2 meter transceiver for the com truck. When you stop to think about it, very little has been done by the club in upgrading the club equipment in the past 5 years. For that matter very little has been done by CD at the E. O. C. either.

Also at this meeting we asked about having the hospital net activated for the SET and were told by Tom, K3KPM, the radio officer, that the hospital net could only be activated by Mr. Enis at Hamot Medical Center. He also wondered how they kept getting certified when the net hasn't been activated for 2 years. We are hoping to find out who all the stations are which have any mobile capabilities on any band so that a roster can be made up. Stop for a moment and think of all the true emergencies that have been in the past year- Rapid City Flood, Eastern Pennsylvania Flood in June, and the Nicaraguan earthquake to mention the better known ones-where Ham Radio made the difference of having contact with the rest of the world or not. Those of you who helped out or even monitored these events know that almost every station on the air the first hours or so signed "MOBILE."

This should be considered when you are resting your fat south side in a warm, well lighted ham shack and some mobile station cones on freq. driving on a rough road or through rush hour traffic slightly off freq. I've even noticed

xtal controlled mobile gear shift freq. when the voltage regulator shifted from 12-13 volts to 15-16 volts. In most mobiles remember that the 2 to 3 volt increase is multiplied by about 20 times making it come out to be a 40-60 volt change at plates of the rig. Usually only the VFO has a voltage regulating tube.

By next month we hope to be able to tell you what has been done, not what is planned.

'73

George, K3VLP

READ THE MAIL

For those who just love to read the mail, here is a letter for the inactive active. The mail will come directly to your shack.

Remember, when too much inactivity persists too much lard settles in one spot, rather than spread all over the body.

Hear about the operator who tripped over a big word and wrenched his back, so he can't come to meetings or be active in the club sponsored activities.

How about the C.W. operator that broke a fingernail and was in terrible pain, that he couldn't leave home. The only thing he knew by heart was QRN-QRM.

You're afraid it might snow while you're eyeballing, take a bus, no fuss, call a ham on jumping 2m, Dead 6m, 40M, 10M. what about land line. Excuses are easy to come by, reasons are tough.

Let's face it. Are you afraid you might be a commitment???

Show up and show off. Who knows there might be some hidden talent, regardless of how little it can be used. Remember, when there's activity at the trough, there's got to be a good time.

Let's get stomping. There's people to see and things to do.

-ANONYMOUS

ACTIVITIES PLANNED (continued)

planned including the Auction of the Year sponsored by the RAE, Field Day in June, a car caravan to the Dayton Ham-vention, an excellent discussion and demonstration of the locally owned and developed "Radolite" signaling system, a tour of Hamot Hospital's Medical Electronics Maintenance and Repair Department, and a talk by Wil Monola, W3WBA, on his new "Mini-Quad" antenna design.

Get ready for a Summer Picnic at Walda-meer Park in August, and keep an eye out for the dates on these other programs in the mill: Propaganda on Shortwave Broadcasts, Teletype converter Design, and Photography for Radio Amateurs.

Sounds like fun to me, how about you? Got any other ideas? Let me know what they are and we'll see what can be done about them. Read the Sunday Times Amateur radio columns for last minute details on all activities.

It looks like we are off to a great year and it's nice to have you all aboard.

-Charlie B. K3NAC
Activities Chairman

COMPETITION

Three years ago some of the members of the RAE broke away to revive another club that had been inactive for many years. So long, in fact, that most of us didn't even know that it had even existed. Since then I have many times stated that the competition was good for all. People who had never did anything were finally doing something.

There is one place where I feel that we are hurting ourselves very much. -BOTH CLUBS- activities.

The RAE had made arrangements for Mr. Windom to be a speaker at a club meeting. With no retraction of his plans with RAE, Mr. Windom appeared at a PARC meeting. Shortly after this RAE made arrangements with Jesse Bieberman, W3KT, to speak to the RAE. Shortly

before he was to speak we received word from him that PARC had contacted him and wanted him to speak at their meeting which they proposed to schedule the day proceeding RAE's meeting. Mr. Bieberman, when told the situation, refused to speak at that time of a PARC meeting. Since then I have suggested changing the RAE activities meeting night, which for at least 10 years, has been the third Thursday of each month, to some other night if PARC would only schedule their activities so we would know when they would take place. It has been my contention that the HAMS of Erie will no go to two hams functions in the same week.

I have also had different ones tell me that they stayed away from ALL ham functions so that they could remain on speaking terms with other hams. Is this necessary? There have been auctions, dinners, emergency drills, and programs where this has happened. Were you one who stayed away?

By the time you read this I will have been seen at a PARC function, January 18th meeting at City Hall. This is on a night when RAE will be having a tour of the weather facilities at Port Erie Airport. As much as I feel that as a RAE member and a member of the Board of Directors that I should be there, my interest in Ham radio leads me to city hall. Maybe because of this there will be more local representatives at the future functions, again maybe there will be those of you who feel that as a member of the board that I am obligated to go to RAE functions when they are scheduled at the same time as PARC. Personally, I feel obligated to go where I can further my knowledge of our hobby.

I do hope that sometime in the future that there can be some way to arrange dates so things like this don't happen. Remember that any speaker coming into the Erie area probably will not know that there is more than one club meeting on the same night. His report to others might mean the difference between getting speakers and not. Lets work together for the enjoyment of ham radio.

K3VLP, GEORGE

The first thing to report is that Mason Freeman W3DQF, repaired and tuned, and also replaced several tubes in the NC-240D receiver. No charge for the tubes. Prior to W3DQF's handiwork, the rig was just a dust collector. By the way Mason will be moving down state in several weeks and I'm sure he'll be missed. Thanks, Mason, for a job well done. Secondly, the Swan 6 meter rig was put into operation by Bob WA3HDK. This unit was also inoperative, but with persistence and determination, Bob got it on the air and working beautifully. Thank you, Bob. I'm sure the club members appreciate your effort. The club's small generator, borrowed by the FM group for field tests is performing better than ever. A little maintenance by Chuck W3ZIO was all that was required to bring the unit back to 100% efficiency. Thanks to Chuck. That's about it for now but we'll have more to report as things get done, and put into good shape by members who do want to see the club's equipment in peak performance and condition.

WA3MAU, Joe

REPEATER MINUTES CONTINUED

voting member of the repeater committee dues must be paid in full for the current month.

K3NAU stated that if repeater committee wants to purchase the RCVR site tower we may deduct dues that would have been paid by K3NAU from date of installation from the purchase price.

WA3HDK stated that coverage toward Union City is poor.

Discussion of satellite RCVR site was heard.

Meeting adjourned at 22:55

-Jim Fitzreider, K3QHO
Secretary

SPECIAL MEETING OF REPEATER COMMITTEE

minutes of December 7, 1973

Election of officers for Repeater Committee.

The meeting was called to order by K3WTZ at 21:45.

The officers to be elected are:

chairman
secretary
treasurer

It was reported that K3ATZ will be at-

ations were opened for treasurer:

K3ATZ nominated W3SN

K3ATZ elected unanimously

Nominations were opened for secretary:

K3QHO nominated by W3SN

K3QHO elected unanimously

Nominations were opened for chairman:

K3WTZ nominated by W3SN

K3NAU nominated by K3QHO

results:

K3WTZ 6 votes, K3NAU 2 votes

K3QAY reported W3ZLO would like to resign as trustee of the repeater station.

K3QAY reported also that he would like to resign as control station of the repeater-Action deferred. 22:00 meeting adjourned.

Jim Fitzreiter, K3QHO
Secretary

R.A.E. MINUTES-----Cont.

There was no old business when called by K3QAY.

NEW BUSINESS

K3VLP reported that the COM truck RTTY lacked a permanent and dependable terminal Unit. George suggested that the club purchase an ST-5 kit from Hal Communications Corp. for \$50.00. George added that reports from several RTTY operators confirmed the reliability of the ST-5. A motion for the purchase was made by K3VLP and it was voted on and carried.

WA3HDK reaffirmed that QUA-RAE meeting for the 28th of the month.

WA3HSE moved, "that the club make payment of \$14.40 for the continuation of Post Office Box rental for another year. The motion was carried.

K3QAY announced that K3ATZ was the member appointed to the Budget Committee along with WA3HDK and WA3EAY.

A motion for adjournment was heard at 9:30 PM and was carried. There were 15 members present. Several 1973 members were signed up at the meeting.

Respectfully submitted,

MICHAEL D. HALL WA3HSE
SECRETARY

TOO LATE TO MENTION

Repeater News- WA3KXD

Whenever you tune your rig (if you have gear for 2 meter F.M.) to 146.94 you reliably can expect the WA3KXD repeater to come back to you when you sign-in on 146.34 or 146.19. This is no accident or black magic that our multi site repeater performs its many functions accurately and reliably, but instead is the result of many many hours of effort and the many dollars contributed by various persons—not even hams—and by the repeater committee members themselves.

This entirely legal machine with its solid state identifier, its touchtone decoder 450 MHZ remote control link, its 2 frequency priority and vote controlled input, its 450 MHZ tie link is a very important object. It has brought enough attention and gathered enough interest from area hams to justify a special committee, a special meeting date, and also a new subject of discussion among the members of the Radio Association of Erie along with many other hams.

Therefore the stage is set for a long lasting adventure, but such will not transpire if we do not have continuous mutual support from each and every one of you. Such support is required to ascertain that our activity and interest in the repeater is constantly rejuvenated by ^{some} new mode of operation, some new piece of associated equipment, or some new project ^{such as} building a remote receiver site, and many other possibilities too numerous to mention.

Such support is required in two ways. One financial and two physical. There are always a few that choose to refrain from financial support but continuously offer their helping hand and offer to assist physically on our projects. Of course we cannot operate without financial support as we ^{are} a committee must pay our way. The committee has already invested over \$700. in the last year to construct and maintain the present equipment and has leased an ^{EQUIVALENT} amount of equipment. Therefore if we are to prosper we must have both financial and physical support from everyone involved.

To date we still have those few that have not volunteered any help physically or financially. Must we ask? Remember it is extremely difficult to maintain and expand our present repeater without your support. WE NEED YOUR SUPPORT to continue to improve our repeater and keep it on the air.

.K3WTZ, Bob
Chairman Repeater Committee

Editor's Note: This was one of the first articles in this month but, due to a clerical error, missed being placed nearer the front of the paper.

LETTERS to the editor . . .

Greetings to all my fellow hams.

During the past four years it has been a deep pleasure to serve you on the repeater committee, in the beginning as chairman and recently as trustee.

My activities as of late have been limited due to a desire and a calling to

enter the Christian ministry. I feel that the ego-building and deflating that is going on 2 meter FM is not my cup of tea, so I remain silent.

My activities at W3ZLO will now be centered on 20 meters serving the many mis-

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• FEBRUARY 1973 •

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 RAE BUSINESS MEETING 8 PM	2 GROUND HOG DAY.	3 ARRL DX CONTEST "PHONE"
4 6 & 10 NETS - DX "PHONE" CONTEST	5	6	7	8 RAE REPEATER COMM. MTG. 8 PM	9	10 QCWA "QSO" Party
11 6 & 10 NETS - QCWA QSO PARTY	12 Abraham, Lincoln's Birthday	13	14 	15 WQLN TOUR 8 PM	16	17
18 6 & 10 NETS - TRANSMITTER HUNT	19 (ACTUAL 22nd) George Washington's Birthday	20	21	22 NEWS STAFF MTG. (ALL WELCOME)	23	24
25 6 & 10 NET	26	27	28	March 15: Oscilloscopes - K3HFL (NAVY RESERVE CENTER) May 5: ANNUAL RAE AUCTION. All activities (except WQLN tour) at Red Cross Bldg.		

LETTERS (continued)

Please accept the controller for the repeater as a gift from my family. It is their lives that were almost lost in the building of it. Any or all of you are welcome with love to see Jesus at work on Saturday nights at Villa College. Hams in attendance include Chuck McCoy and Bill Horvath--and only God knows who else is praising Him that has a license.

One final word before I close. Your activity committee can find a lot of rewarding presentations in the fellowship of Christian hams. Try us sometime!

73's and 99's
Chuck, W3ZLO

QUA-RAE announces with regret the passing of Jim Rose's father and Leo Weiner's mother.

LATE SSB

FOR SALE: Hammerlund HQ 160, general coverage receiver. Triple conversion, product detector. Mrs. Anne O'Neil, 52 Backman Ave., Westfield, NY 14787

EC REPORT

With the 1973 SET upon us, it looks like a lot of traffic activity by the local group will be the main involvement of the Erie Co. AREC in SET. There is a local drill scheduled to take place beginning at 10:00 AM. All three MERET nets (6, 2, & 10 meters) will be called to order at 9:30 AM and the simulated emergency conditions will be announced at 10:00 AM. The station at the EOC will be operating 24 hours sending traffic to NTS via the WPA net (CW) and PFN (phone). operators are urgently needed - you need not be experienced - you'll get good QJT there.

In related news, Rick Craig, WA3ISW is building up the club's new ST-5 Terminal unit for the COM truck. This will become a permanent part of the truck and a separate RTTY transmitter will also be installed to save the SWAN. Speaking of SWAN, it was generally felt at the last RAE meeting that the remote control SWAN mobile antenna was not really what we wanted and did not justify the price. In the meantime, members of the Mobile Activities is committee will be testing both Hustlers and a Bandspanner in the truck. Chuck Bliley, K3NAU has a Bandspanner for sale and this will probably be on the truck shortly.

I would like to remind all LEEN members that beginning March 4, 1973 the net will meet on 29.00 MHZ instead of the old 29.150. 29.150 will remain as an alternate frequency along with the present AF of 29.050.

A full report on local SET activity will follow in March issue. AREC activities between SET and the upcoming QD Driveout in April will concentrate on "efficientizing" the COM Truck for move use.. Hope to see you during SET.

Mike - WA3HSR

STRAYS

WA3COM, Bob Hooper reminds all hams buying equipment from Heath that the prices in their catalog, unless otherwise listed, are FOB from the factory and do not apply to retail Heath outlets. Bob's order from the retail store came up 20% short as their prices run high.

LETTERS (continued)

sionarys around the world on the ARMS and HALO nets.

As you consider the future of the RAE and its various activities, remember where your foundation is. That house which was build on Rock can also apply here.

I know many of you knew of my personal activities as I was being drawn nearer to the near disaster in my life that almost happened.

Well, I have repented of that and many other things and, in a way, have died the world. When one dies in the world his victor, (the world) divides the spoils.

When one even begins to die in Jesus his victor, (Jesus), provides the renewal and all heaven rejoices.

Thank you for allowing me to serve you and I pray that the club will provide good fellowship to everyone.

continued on p.

IT'S RENEWAL TIME AGAIN . . . Since October we have been conducting our annual dues-collecting drive. While we are somewhat ahead of last year's record, it still bothers us that some of you out there have not sent in--or better, still, brought in, your 1973 dues. Now we have to go to all that work of pulling your addressograph plate and discontinuing your newsletter. YOU WILL NOT RECEIVE ANY MORE REGULAR MAILINGS OF QUA-RAE. Of course, about once or twice a year we dig into the pile of old plates and mail a copy to see if we can entice you to become part of the "in group."

Check over the list of paid-up members below to see that we have not made any error. If you paid but your call doesn't appear, get in touch with Chuck Manross, WA3KAI, our membership chairman. Chuck's phone number is 455-8829.

WA3ANA	WA3JJT	K8OHL	W3STK
W3AQY	WA3KAI	WA3OOM	WA3TRJ
K3ATZ	K3KAP	K3PCI	K3UPC
K3AXS	W3KPE	WA3PFL	W8UMS
W8BKM	W3KPJ	W3PJD	W3VHP
W3CB	W3KPM	W7PJJ	K3VLP
WA8CWC	K3KSB	WA3PJL	K3VMS
WA3EAY	W3KUN	WA3PVU	K3VRM
WA3EZN	W8LAC	K3QAY	K3VXE/7
WA9EZP	W3LKH	WA3QAY	W3WAX
WA3EZR	W3LKJ	K3QHO	K3WTZ
W8GR	W3LMK	W3QN	W3YWL
WA3HDK	W3LOS	W3QPP	Maurice Baker
K3HFL	W3NFM	W3RLJ	Eleanor Forbes
WA3HGJ	WA3MAU	K3SAF	Nick Stichick
WA3HJC	W3MED	W3SLC	John C. Thompson
WA3HRJ	K4MY	W3SN	W3NFX
WA3HSR	K3NAU	WA7SNT	WN3UCX

1973 MEMBERSHIP

\$1.50 / YEAR

Name _____ CALL _____

Address _____ City _____ State _____ ZIP _____

Phone _____ ARRL Member _____ Yes _____ No _____

What would you like to see the club do? (any other comments?)
